

Non-Catalog Model

Power Splitter/Combiner

2 Way-90°

PSCQ-2-6.4

PSCQ-2-6.4+



CASE STYLE : A01

Important Note

This is a non-catalog model and can be manufactured on specific request.
Pricing and delivery information can be supplied upon request.

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+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		5.8		7 MHz
Isolation	5.8 - 7 MHz	25	30	dB
Insertion Loss				
Average of Coupled Outputs	5.8 - 7 MHz		0.40	0.70 dB
above 3.0 dB				
Phase Unbalance	5.8 - 7 MHz		0.385	3.000 deg.
Amplitude Unbalance	5.8 - 7 MHz		0.423	1.200 dB
VSWR	SUM Port		1.05	(:1)
	OUT Ports		1.05	(:1)

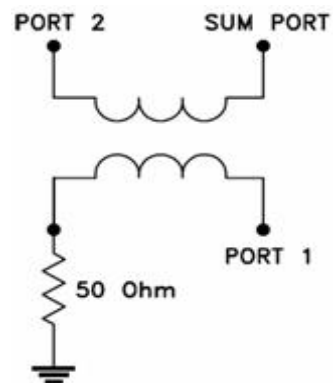
Notes: Matched power rating: 1 Watt.

Internal load dissipation: 0.125 Watt.

MAXIMUM RATINGS	
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C

PIN CONNECTIONS	
SUM PORT	1
PORT 1	2
PORT 2	5
GND EXT	3, 4, 7, 8
50Ω TERMINATION	6

Functional Diagram



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Typical Performance Data

FREQ. (MHz)	TOTAL LOSS ¹ (dB)			AMP. UNBAL. (dB)	ISOLATION (dB)	PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2	AVG.					S	1	2
5.80	3.59	2.62	3.11	0.97	31.68	89.59	5.80	1.05	1.05	1.06
5.83	3.57	2.65	3.11	0.93	31.67	89.61	5.83	1.05	1.05	1.06
5.86	3.54	2.66	3.10	0.88	31.66	89.66	5.86	1.05	1.05	1.06
5.89	3.52	2.68	3.10	0.84	31.68	89.66	5.89	1.05	1.05	1.06
5.92	3.50	2.70	3.10	0.80	31.66	89.61	5.92	1.05	1.05	1.06
5.95	3.47	2.72	3.10	0.75	31.68	89.63	5.95	1.05	1.05	1.06
5.98	3.45	2.74	3.10	0.71	31.69	89.65	5.98	1.05	1.05	1.06
6.01	3.43	2.76	3.10	0.66	31.69	89.59	6.01	1.05	1.05	1.06
6.04	3.40	2.78	3.09	0.62	31.69	89.62	6.04	1.05	1.05	1.06
6.07	3.38	2.80	3.09	0.58	31.71	89.60	6.07	1.05	1.05	1.06
6.10	3.36	2.82	3.09	0.54	31.71	89.59	6.10	1.05	1.05	1.06
6.13	3.34	2.84	3.09	0.49	31.72	89.63	6.13	1.05	1.05	1.06
6.16	3.31	2.86	3.09	0.46	31.72	89.63	6.16	1.05	1.05	1.06
6.19	3.29	2.89	3.09	0.40	31.73	89.62	6.19	1.05	1.05	1.06
6.22	3.27	2.90	3.09	0.38	31.75	89.62	6.22	1.05	1.05	1.06
6.25	3.25	2.92	3.09	0.33	31.74	89.61	6.25	1.05	1.05	1.06
6.28	3.23	2.94	3.09	0.29	31.76	89.59	6.28	1.05	1.05	1.06
6.31	3.20	2.96	3.08	0.24	31.77	89.63	6.31	1.05	1.05	1.06
6.34	3.19	2.98	3.09	0.21	31.78	89.63	6.34	1.05	1.05	1.06
6.37	3.17	2.99	3.08	0.17	31.79	89.62	6.37	1.05	1.05	1.06
6.40	3.14	3.02	3.08	0.13	31.80	89.64	6.40	1.05	1.05	1.06
6.43	3.13	3.04	3.09	0.08	31.81	89.60	6.43	1.05	1.05	1.06
6.46	3.10	3.06	3.08	0.05	31.80	89.64	6.46	1.05	1.05	1.06
6.49	3.09	3.08	3.09	0.01	31.82	89.61	6.49	1.05	1.05	1.06
6.52	3.06	3.10	3.08	0.03	31.84	89.60	6.52	1.05	1.05	1.06
6.55	3.04	3.12	3.08	0.08	31.85	89.63	6.55	1.05	1.05	1.06
6.58	3.03	3.14	3.09	0.11	31.85	89.62	6.58	1.05	1.05	1.06
6.61	3.01	3.16	3.09	0.15	31.86	89.61	6.61	1.05	1.05	1.06
6.64	2.98	3.18	3.08	0.20	31.87	89.62	6.64	1.05	1.05	1.05
6.67	2.97	3.20	3.09	0.23	31.88	89.60	6.67	1.05	1.05	1.05
6.70	2.95	3.22	3.09	0.27	31.90	89.56	6.70	1.05	1.05	1.05
6.73	2.93	3.24	3.09	0.31	31.90	89.56	6.73	1.05	1.05	1.05
6.76	2.92	3.26	3.09	0.34	31.90	89.59	6.76	1.05	1.05	1.05
6.79	2.89	3.28	3.09	0.39	31.93	89.63	6.79	1.05	1.05	1.05
6.82	2.88	3.30	3.09	0.42	31.93	89.61	6.82	1.05	1.05	1.05
6.85	2.86	3.32	3.09	0.46	31.95	89.62	6.85	1.05	1.05	1.05
6.88	2.84	3.34	3.09	0.49	31.96	89.63	6.88	1.05	1.05	1.05
6.91	2.83	3.36	3.10	0.53	31.96	89.61	6.91	1.05	1.05	1.05
6.94	2.81	3.38	3.10	0.57	31.97	89.60	6.94	1.05	1.05	1.05
6.97	2.79	3.40	3.10	0.60	31.99	89.61	6.97	1.05	1.05	1.05
7.00	2.77	3.42	3.10	0.64	32.00	89.63	7.00	1.05	1.05	1.05

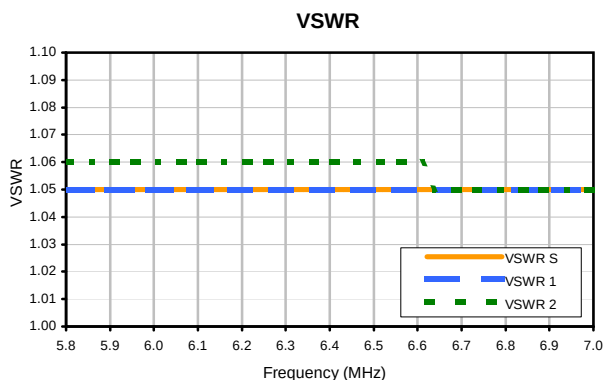
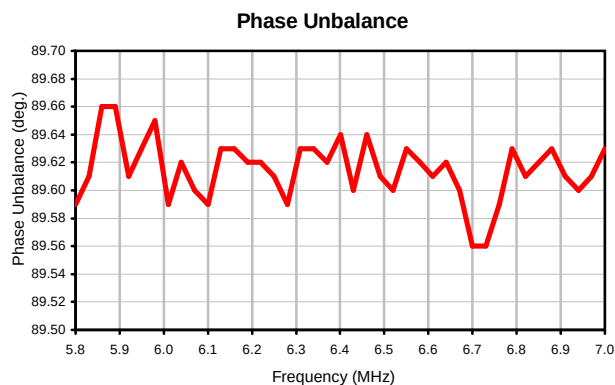
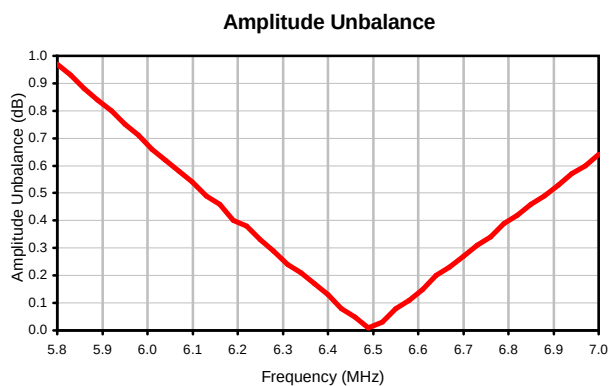
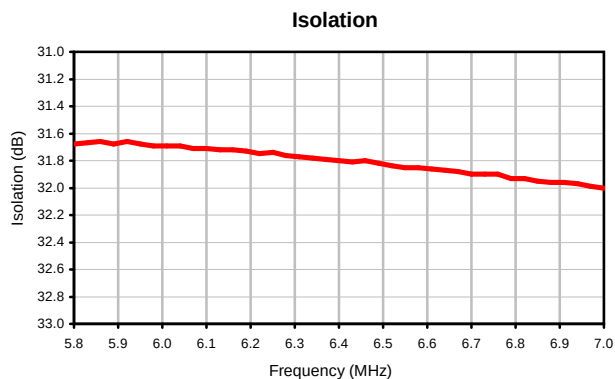
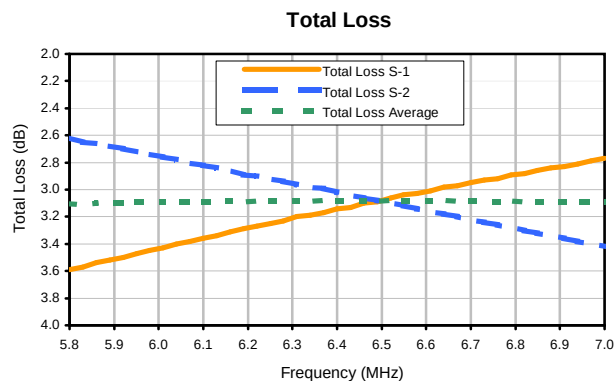
¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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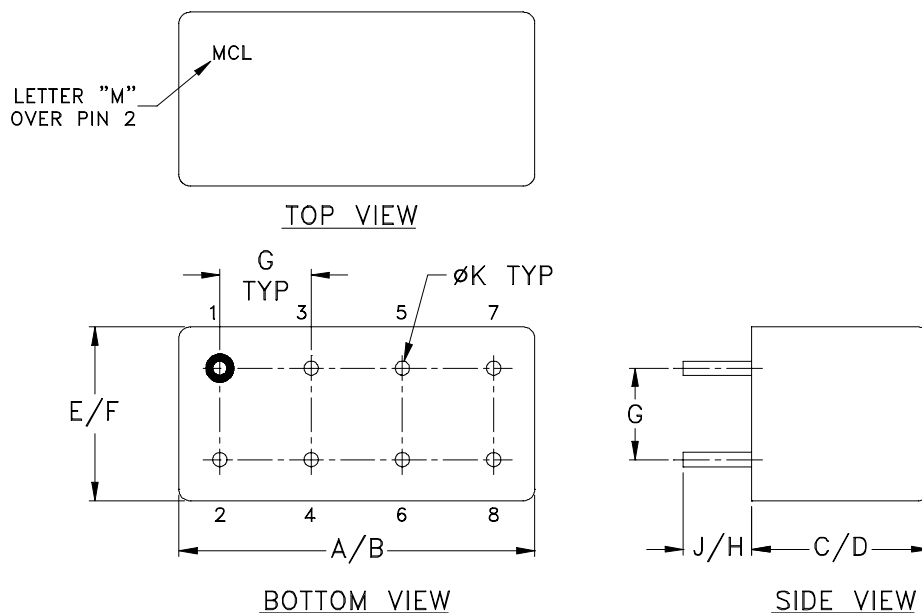
Typical Performance Curves



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A01
A04
A05
A06

Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	WT, GRAM
A01	.770 (19.56)	.800 (20.32)	.385 (9.78)	.400 (10.16)	.370 (9.40)	.400 (10.16)	.200 (5.08)	.20 (5.08)	.14 (3.56)	.031 (.79)	5.2
A04			.200 (5.08)	.210 (5.33)							3.7
A05			.240 (6.10)	.250 (6.35)							3.7
A06			.285 (7.24)	.310 (7.87)							5.2

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Header material: C.R.S.
Pin material: #52 alloy.
Cover material: Cupro-Nickel.
- Pin finish: Electro Tin-Silver.
- Insulated spacer available. Request P/N B14-045-01.
- Tolerance on pin diameter $\pm .005$ inch.
- Glass meniscus 0.015 inch max.
- Blue bead indicates Pin 1. Pin numbers do not appear on unit, for reference only.



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